

Stripped Sequence Listing.txt
SEQUENCE LISTING

AP16 P331470770 06 DEC 2005

<110> AstraZeneca AB et al

<120> Diagnostic Method

<130> 101073-1P WO

<140> PCT/SE2004/000861

<141> 2004-06-03

<150> 0313081.2

<151> 2003-06-06

<160> 191

<170> PatentIn version 3.2

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Stripped Sequence Listing.txt

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Stripped Sequence Listing.txt

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Stripped Sequence Listing.txt

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Stripped Sequence Listing.txt

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35 40 45
```

```
Gly Gly Ala Lys Ala Glu Leu Leu Lys Leu Leu Leu Ala Lys Glu
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```

```
Arg Asp His Phe Gln Asp Leu Arg Ala Ala Leu Glu Lys Thr Gln Pro
65 70 75 80
```

```
His Leu Leu Pro Ile Leu Tyr Leu Asn Gly Val Val Gly Pro Pro Gln
85 90 95
```

```
Pro Ala Glu Gly Ala Gly Ser Thr Tyr Ser Val Leu Ser Thr Met Pro
100 105 110
```

```
Ser Asp Ser Glu Ser Ser Ser Ser Leu Ser Ser Val Gly Thr Thr Gly
115 120 125
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```
Lys Ala Pro Ser Pro Pro Pro Leu Leu Thr Asp Gln Gln Val Asn Glu
130 135 140
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Stripped Sequence Listing.txt

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 Asn Glu Leu Arg Lys Arg Leu Ala Phe Ala Thr His Gly Thr Ala Phe
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 Asp Lys Arg Pro Tyr His Arg Leu Asn Pro Asp Tyr Glu Arg Leu Lys
 180 185 190
 Ile Gln Cys Val Arg Ala Met Ser Asp Leu Gln Ser Leu Gln Asn Gln
 195 200 205
 His Thr Asn Ala Leu Lys Arg Cys Glu Glu Val Ala Lys Glu Thr Asp
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 Phe Tyr His Thr Leu His Ser Arg Leu Leu Ser Asp Gln Thr Arg Leu
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 Lys Asp Asp Val Asp Met Leu Arg Arg Glu Asn Gly Gln Leu Leu Arg
 245 250 255
 Glu Arg Asn Leu Leu Gln Gln Ser Trp Glu Asp Met Lys Arg Leu His
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 Glu Glu Asp Gln Lys Glu Ile Gly Asp Leu Arg Ala Gln Gln Gln Gln
 275 280 285
 Val Leu Lys His Asn Gly Ser Ser Glu Ile Leu Asn Lys Leu Tyr Asp
 290 295 300
 Thr Ala Met Asp Lys Leu Glu Val Val Lys Lys Asp Tyr Asp Ala Leu
 305 310 315 320
 Arg Lys Arg Tyr Ser Glu Lys Val Ala Ile His Asn Ala Asp Leu Ser
 325 330 335
 Arg Leu Glu Gln Leu Gly Glu Glu Asn Gln Arg Leu Leu Lys Gln Thr
 340 345 350
 Glu Met Leu Thr Gln Gln Arg Asp Thr Ala Ile Gln Leu Gln His Gln
 355 360 365
 Cys Ala Leu Ser Leu Arg Arg Phe Glu Ala Ile His His Glu Leu Asn
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 Lys Ala Thr Ala Gln Asn Lys Asp Leu Gln Trp Glu Met Glu Leu Leu
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Stripped Sequence Listing.txt

Gln Ser Glu Leu Thr Glu Leu Arg Thr Thr Gln Val Lys Thr Ala Lys
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Glu Ser Glu Lys Tyr Arg Glu Glu Arg Asp Ala Val Tyr Ser Glu Tyr
420 425 430

Lys Leu Ile Met Ser Glu Arg Asp Gln Val Ile Ser Glu Leu Asp Lys
435 440 445

Leu Gln Thr Glu Val Glu Leu Ala Glu Ser Lys Leu Lys Ser Ser Thr
450 455 460

Ser Glu Lys Lys Ala Ala Asn Glu Glu Met Glu Ala Leu Arg Gln Ile
465 470 475 480

Lys Asp Thr Val Thr Met Asp Ala Gly Arg Ala Asn Lys Glu Val Glu
485 490 495

Ile Leu Arg Lys Gln Cys Lys Ala Leu Cys Gln Glu Leu Lys Glu Ala
500 505 510

Leu Gln Glu Ala Asp Val Ala Lys Cys Arg Arg Asp Trp Ala Phe Gln
515 520 525

Glu Arg Asp Lys Ile Val Ala Glu Arg Asp Ser Ile Arg Thr Leu Cys
530 535 540

Asp Asn Leu Arg Arg Glu Arg Asp Arg Ala Val Ser Glu Leu Ala Glu
545 550 555 560

Ala Leu Arg Ser Leu Asp Asp Thr Arg Lys Gln Lys Asn Asp Val Ser
565 570 575

Arg Glu Leu Lys Glu Leu Lys Glu Gln Met Glu Ser Gln Leu Glu Lys
580 585 590

Glu Ala Arg Phe Arg Gln Leu Met Ala His Ser Ser His Asp Ser Ala
595 600 605

Ile Asp Thr Asp Ser Met Glu Trp Glu Thr Glu Val Val Glu Phe Glu
610 615 620

Arg Glu Thr Glu Asp Ile Asp Leu Lys Ala Leu Gly Phe Asp Met Ala
625 630 635 640

Glu Gly Val Asn Glu Pro Cys Phe Pro Gly Asp Cys Gly Ile Phe Val
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645

650

655

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 Asp Trp Leu Leu Arg Ile Asn Asp Val Asp Leu Ile Asn Lys Asp Lys
 675 680 685
 Lys Gln Ala Ile Lys Ala Leu Leu Asn Gly Glu Gly Ala Ile Asn Met
 690 695 700
 Val Val Arg Arg Arg Lys Ser Leu Gly Gly Lys Val Val Thr Pro Leu
 705 710 715 720
 His Ile Asn Leu Ser Gly Gln Lys Asp Ser Gly Ile Ser Leu Glu Asn
 725 730 735
 Gly Val Tyr Ala Ala Ala Val Leu Pro Gly Ser Pro Ala Ala Lys Glu
 740 745 750
 Gly Ser Leu Ala Val Gly Asp Arg Ile Val Ala Ile Asn Gly Ile Ala
 755 760 765
 Leu Asp Asn Lys Ser Leu Asn Glu Cys Glu Ser Leu Leu Arg Ser Cys
 770 775 780
 Gln Asp Ser Leu Thr Leu Ser Leu Leu Lys Val Phe Pro Gln Ser Ser
 785 790 795 800
 Ser Trp Ser Gly Gln Asn Ile Phe Glu Asn Ile Lys Asp Ser Asp Lys
 805 810 815
 Met Leu Ser Phe Arg Ala His Gly Pro Glu Val Gln Ala His Asn Lys
 820 825 830
 Arg Asn Leu Ile Gln His Asn Asn Ser Thr Gln Thr Asp Ile Phe Tyr
 835 840 845
 Thr Asp Arg Leu Glu Asp Arg Lys Glu Pro Gly Pro Pro Gly Gly Ser
 850 855 860
 Ser Ser Phe Leu His Lys Pro Phe Pro Gly Gly Pro Leu Gln Val Cys
 865 870 875 880
 Pro Gln Ala Cys Pro Ser Ala Ser Glu Arg Ser Leu Ser Ser Phe Arg
 885 890 895

Stripped Sequence Listing.txt

Ser Asp Ala Ser Gly Asp Arg Gly Phe Gly Leu Val Asp Val Arg Gly
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Arg Arg Pro Leu Leu Pro Phe Glu Thr Glu Val Gly Pro Cys Gly Val
915 920 925

Gly Glu Ala Ser Leu Asp Lys Ala Asp Ser Glu Gly Ser Asn Ser Gly
930 935 940

Gly Thr Trp Pro Lys Ala Met Leu Ser Ser Thr Ala Val Pro Glu Lys
945 950 955 960

Leu Ser Val Tyr Lys Lys Pro Lys Gln Arg Lys Ser Ile Phe Asp Pro
965 970 975

Asn Thr Phe Lys Arg Pro Gln Thr Pro Pro Lys Ile Asp Tyr Leu Leu
980 985 990

Pro Gly Pro Gly Pro Ala His Ser Pro Gln Pro Ser Lys Arg Ala Gly
995 1000 1005

Pro Leu Thr Pro Pro Lys Pro Pro Arg Arg Ser Asp Ser Ile Lys
1010 1015 1020

Phe Gln His Arg Leu Glu Thr Ser Ser Glu Ser Glu Ala Thr Leu
1025 1030 1035

Val Gly Ser Ser Pro Ser Thr Ser Pro Pro Ser Ala Leu Pro Pro
1040 1045 1050

Asp Val Asp Pro Gly Glu Pro Met His Ala Ser Pro Pro Arg Lys
1055 1060 1065

Ala Arg Val Arg Ile Ala Ser Ser Tyr Tyr Pro Glu Gly Asp Gly
1070 1075 1080

Asp Ser Ser His Leu Pro Ala Lys Lys Ser Cys Asp Glu Asp Leu
1085 1090 1095

Thr Ser Gln Lys Val Asp Glu Leu Gly Gln Lys Arg Arg Arg Pro
1100 1105 1110

Lys Ser Ala Pro Ser Phe Arg Pro Lys Leu Ala Pro Val Val Ile
1115 1120 1125

Pro Ala Gln Phe Leu Glu Glu Gln Lys Cys Val Pro Ala Ser Gly
1130 1135 1140

Stripped Sequence Listing.txt

Glu	Leu	Ser	Pro	Glu	Leu	Gln	Glu	Trp	Ala	Pro	Tyr	Ser	Pro	Gly
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Ser	Val	Gly	Thr	Val	Pro	Arg	Ser	Leu	Thr	Pro	Ser	Thr	Thr	Val
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Ser	Ser	Ile	Leu	Arg	Asn	Pro	Ile	Tyr	Thr	Val	Arg	Ser	His	Arg
	1190					1195					1200			
Val	Gly	Pro	Cys	Ser	Ser	Pro	Pro	Ala	Ala	Arg	Asp	Ala	Gly	Pro
	1205					1210					1215			
Gln	Gly	Leu	His	Pro	Ser	Val	Gln	His	Gln	Gly	Arg	Leu	Ser	Leu
	1220					1225					1230			
Asp	Leu	Ser	His	Arg	Thr	Cys	Ser	Asp	Tyr	Ser	Glu	Met	Arg	Ala
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Thr	His	Gly	Ser	Asn	Ser	Leu	Pro	Ser	Ser	Ala	Arg	Leu	Gly	Ser
	1250					1255					1260			
Ser	Ser	Asn	Leu	Gln	Phe	Lys	Ala	Glu	Arg	Ile	Lys	Ile	Pro	Ser
	1265					1270					1275			
Thr	Pro	Arg	Tyr	Pro	Arg	Ser	Val	Val	Gly	Ser	Glu	Arg	Gly	Ser
	1280					1285					1290			
Val	Ser	His	Ser	Glu	Cys	Ser	Thr	Pro	Pro	Gln	Ser	Pro	Leu	Asn
	1295					1300					1305			
Ile	Asp	Thr	Leu	Ser	Ser	Cys	Ser	Gln	Ser	Gln	Thr	Ser	Ala	Ser
	1310					1315					1320			
Thr	Leu	Pro	Arg	Ile	Ala	Val	Asn	Pro	Ala	Ser	Leu	Gly	Glu	Arg
	1325					1330					1335			
Arg	Lys	Asp	Arg	Pro	Tyr	Val	Glu	Glu	Pro	Arg	His	Val	Lys	Val
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Gln	Lys	Gly	Ser	Glu	Pro	Leu	Gly	Ile	Ser	Ile	Val	Ser	Gly	Glu
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Lys	Gly	Gly	Ile	Tyr	Val	Ser	Lys	Val	Thr	Val	Gly	Ser	Ile	Ala
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Stripped Sequence Listing.txt

His Gln Ala Gly Leu Glu Tyr Gly Asp Gln Leu Leu Glu Phe Asn
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 Ile Gly Gln Gln Cys Asp Thr Ile Thr Ile Leu Ala Gln Tyr Asn
 1415 1420 1425
 Pro His Val His Gln Leu Ser Ser His Ser Arg Ser Ser Ser His
 1430 1435 1440
 Leu Asp Pro Ala Gly Thr His Ser Thr Leu Gln Gly Ser Gly Thr
 1445 1450 1455
 Thr Thr Pro Glu His Pro Ser Val Ile Asp Pro Leu Met Glu Gln
 1460 1465 1470
 Asp Glu Gly Pro Ser Thr Pro Pro Ala Lys Gln Ser Ser Ser Arg
 1475 1480 1485
 Ile Ala Gly Asp Ala Asn Lys Lys Thr Leu Glu Pro Arg Val Val
 1490 1495 1500
 Phe Ile Lys Lys Ser Gln Leu Glu Leu Gly Val His Leu Cys Gly
 1505 1510 1515
 Gly Asn Leu His Gly Val Phe Val Ala Glu Val Glu Asp Asp Ser
 1520 1525 1530
 Pro Ala Lys Gly Pro Asp Gly Leu Val Pro Gly Asp Leu Ile Leu
 1535 1540 1545
 Glu Tyr Gly Ser Leu Asp Val Arg Asn Lys Thr Val Glu Glu Val
 1550 1555 1560
 Tyr Val Glu Met Leu Lys Pro Arg Asp Gly Val Arg Leu Lys Val
 1565 1570 1575
 Gln Tyr Arg Pro Glu Glu Phe Thr Lys Ala Lys Gly Leu Pro Gly
 1580 1585 1590
 Asp Ser Phe Tyr Ile Arg Ala Leu Tyr Asp Arg Leu Ala Asp Val
 1595 1600 1605
 Glu Gln Glu Leu Ser Phe Lys Lys Asp Asp Ile Leu Tyr Val Asp

Stripped Sequence Listing.txt

1610													
Asp	Thr	Leu	Pro	Gln	Gly	Thr	Phe	Gly	Ser	Trp	Met	Ala	Trp
1625						1630					1635		
Leu	Asp	Glu	Asn	Ala	Gln	Lys	Ile	Gln	Arg	Gly	Gln	Ile	Pro
1640						1645					1650		
Lys	Tyr	Val	Met	Asp	Gln	Glu	Phe	Ser	Arg	Arg	Leu	Ser	Met
1655						1660					1665		
Glu	Val	Lys	Asp	Asp	Asn	Ser	Ala	Thr	Lys	Thr	Leu	Ser	Ala
1670						1675					1680		
Ala	Arg	Arg	Ser	Phe	Phe	Arg	Arg	Lys	His	Lys	His	Lys	Arg
1685						1690					1695		
Gly	Ser	Lys	Asp	Gly	Lys	Asp	Leu	Leu	Ala	Leu	Asp	Ala	Phe
1700						1705					1710		
Ser	Asp	Ser	Ile	Pro	Leu	Phe	Glu	Asp	Ser	Val	Ser	Leu	Ala
1715						1720					1725		
Gln	Arg	Val	Gln	Lys	Val	Asp	Cys	Thr	Ala	Leu	Arg	Pro	Val
1730						1735					1740		
Ile	Leu	Gly	Pro	Leu	Leu	Asp	Val	Val	Lys	Glu	Met	Leu	Val
1745						1750					1755		
Glu	Ala	Pro	Gly	Lys	Phe	Cys	Arg	Cys	Pro	Leu	Glu	Val	Met
1760						1765					1770		
Ala	Ser	Gln	Gln	Ala	Ile	Glu	Arg	Gly	Val	Lys	Asp	Cys	Leu
1775						1780					1785		
Val	Asp	Tyr	Lys	Arg	Arg	Ser	Gly	His	Phe	Asp	Val	Thr	Thr
1790						1795					1800		
Ala	Ser	Ile	Lys	Glu	Ile	Thr	Glu	Lys	Asn	Arg	His	Cys	Leu
1805						1810					1815		
Asp	Ile	Ala	Pro	His	Ala	Ile	Glu	Arg	Leu	His	His	Met	His
1820						1825					1830		
Tyr	Pro	Ile	Val	Ile	Phe	Ile	His	Tyr	Lys	Ser	Ala	Lys	His
1835						1840					1845		

Stripped Sequence Listing.txt

Lys Glu Gln Arg Asp Pro Ile Tyr Leu Arg Asp Lys Val Thr Gln
1850 1855 1860

Arg His Ser Lys Glu Gln Phe Glu Ala Ala Gln Lys Leu Glu Gln
1865 1870 1875

Glu Tyr Ser Arg Tyr Phe Thr Gly Val Ile Gln Gly Gly Ala Leu
1880 1885 1890

Ser Ser Ile Cys Thr Gln Ile Leu Ala Met Val Asn Gln Glu Gln
1895 1900 1905

Asn Lys Val Leu Trp Ile Pro Ala Cys Pro Leu
1910 1915

<210> 3
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<213> Homo sapiens

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cacttccagg acctgcgggc ggcgctggag aagacgcagc ctcacctgct gccattctc 120
tacctgaacg gcgtcgtcgg gccgccgcag cccgccgaag gcgcgg 166

<210> 4
<211> 93
<212> DNA
<213> Homo sapiens

<400> 4
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catgactaac acccttaatt ccatccaccc tcc 93

<210> 5
<211> 544
<212> DNA
<213> Homo sapiens

<400> 5
ggggctgtgg ccacggggga gcgggtggcg gccgcggggc cccggtgagc cgggcccggg 60
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ggcccaggcg acttttctccc gggagttgta gtcttgctct gggggcgggc gcgggcccgg 180
ctttcggggc gagttttctc gcggggcggg cggcgcgcg gcaggctgag ggggaggggg 240
agcatgcccg gctggagccc ggccctcggg cgcgccccgg ccgccgtccc cacctccgcc 300
tcctccttct cctcctccgt ctcctcctcc tcctcttcca gtcccggcgc gcgggcagcc 360
aacatggctg cgctccggag cccgggaggc ggccgctgct gagcgccgcc cgccgccccg 420

Stripped Sequence Listing.txt

ggccccccagc ccgcccaggc cccggcccat ggctcccgcc gcctcacggc tcccggcgcc	480
ctagggctgc tgccgaggtg ctgcctgcc cgcccgccgg cctcgggggg cccgggaggc	540
gtcc	544

<210> 6
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 6	
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<210> 7
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 7	
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<210> 8
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 8	
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<210> 9
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 <213> Homo sapiens

<400> 9	
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<210> 10
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 <212> DNA
 <213> Homo sapiens

<400> 10	
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<210> 11
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 11	
gtgggtgagt accactgtct ggggaggaca c	31

<210> 12

Stripped Sequence Listing.txt

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<211> 31
<212> DNA
<213> Homo sapiens

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<210> 13
<211> 31
<212> DNA
<213> Homo sapiens

<400> 13
ccctcctcac tgaccggcaa gtgaatgaga a 31

<210> 14
<211> 31
<212> DNA
<213> Homo sapiens

<400> 14
ccgcaagcgc ctggcctttg ctacgcatgg c 31

<210> 15
<211> 31
<212> DNA
<213> Homo sapiens

<400> 15
ccgcaagcgc ctggcgtttg ctacgcatgg c 31

<210> 16
<211> 31
<212> DNA
<213> Homo sapiens

<400> 16
ctgagtgtcc cctttccccc acctcatgtc c 31

<210> 17
<211> 31
<212> DNA
<213> Homo sapiens

<400> 17
ctgagtgtcc ccttttcccc acctcatgtc c 31

<210> 18
<211> 31
<212> DNA
<213> Homo sapiens

<400> 18
ttcagcacac tccacagccg gctcctgagt g 31

<210> 19

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Stripped Sequence Listing.txt

<211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 19
 ttcagcacac tccacggccg gctcctgagt g 31

 <210> 20
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 20
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 <210> 21
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 21
 cccagcccct ggagaatggc catttctccc a 31

 <210> 22
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 22
 ggcagccacc cacctactca gatccagcct a 31

 <210> 23
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 23
 ggcagccacc cacctcctca gatccagcct a 31

 <210> 24
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 24
 gagaaccacg caggtgaaga cagcaaagga g 31

 <210> 25
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 25
 gagaaccacg caggtaaaga cagcaaagga g 31

 <210> 26

Stripped Sequence.Listing.txt

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<211> 31
<212> DNA
<213> Homo sapiens

<400> 26
ctcagctgtg gtggatagac tggacagtgc c 31

<210> 27
<211> 31
<212> DNA
<213> Homo sapiens

<400> 27
ctcagctgtg gtggacagac tggacagtgc c 31

<210> 28
<211> 31
<212> DNA
<213> Homo sapiens

<400> 28
gaagttgtag agttcgagag ggagacggta a 31

<210> 29
<211> 31
<212> DNA
<213> Homo sapiens

<400> 29
gaagttgtag agttccagag ggagacggta a 31

<210> 30
<211> 30
<212> DNA
<213> Homo sapiens

<400> 30
ggagtgtatg ctgccgctgt gctgcctgga 30

<210> 31
<211> 30
<212> DNA
<213> Homo sapiens

<400> 31
ggagtgtatg ctgctgctgt gctgcctgga 30

<210> 32
<211> 37
<212> DNA
<213> Homo sapiens

<400> 32
gcggtaagtc tcaaggctgg agccagggtc atctgcc 37

<210> 33

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Stripped Sequence Listing.txt

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<211> 30
<212> DNA
<213> Homo sapiens

<400> 33
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<210> 34
<211> 31
<212> DNA
<213> Homo sapiens

<400> 34
ggtaggcctg aggccgctct gcctgtggcc t 31

<210> 35
<211> 31
<212> DNA
<213> Homo sapiens

<400> 35
ggtaggcctg aggccactct gcctgtggcc t 31

<210> 36
<211> 31
<212> DNA
<213> Homo sapiens

<400> 36
tgaatctctg ctgcgagct gccaggactc c 31

<210> 37
<211> 31
<212> DNA
<213> Homo sapiens

<400> 37
tgaatctctg ctgaggagct gccaggactc c 31

<210> 38
<211> 31
<212> DNA
<213> Homo sapiens

<400> 38
catgctactc cttgggggtca caggatcctt g 31

<210> 39
<211> 31
<212> DNA
<213> Homo sapiens

<400> 39
catgctactc cttggagtca caggatcctt g 31

<210> 40

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Stripped Sequence Listing.txt

<211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 40
 cggggagccc atgcacgcat caccctctcg c 31

 <210> 41
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 41
 cggggagccc atgcatgcat caccctctcg c 31

 <210> 42
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 42
 acgcatcacc ccctcgcaag gccagggtcc g 31

 <210> 43
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 43
 acgcatcacc ccctcacaag gccagggtcc g 31

 <210> 44
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 44
 actcctccca cctgccggcc aagaaatcct g 31

 <210> 45
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 45
 actcctccca cctgctggcc aagaaatcct g 31

 <210> 46
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 46
 ctgggtcctt tggggcgtct tttctcacca a 31

 <210> 47

Stripped Sequence Listing.txt

<211> 31
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 <213> Homo sapiens

 <400> 47
 ctgggtcctt tggggtgtct tttctcacca a 31

 <210> 48
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 48
 aagcccattt ctaggcactg ttccccggag t 31

 <210> 49
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 49
 aagcccattt ctaggtactg ttccccggag t 31

 <210> 50
 <211> 31
 <212> DNA
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 <400> 50
 tacgcttctc tgtaccccag ctgcccgaagc c 31

 <210> 51
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 51
 tacgcttctc tgtactccag ctgcccgaagc c 31

 <210> 52
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 52
 tcctgggact gagctgattt ctctactggg a 31

 <210> 53
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 53
 tcctgggact gagctcattt ctctactggg a 31

 <210> 54

Stripped Sequence Listing.txt

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<211> 31
<212> DNA
<213> Homo sapiens

<400> 54
gagtgtcgtg ggctccgaga gaggtaagga c 31

<210> 55
<211> 31
<212> DNA
<213> Homo sapiens

<400> 55
gagtgtcgtg ggctctgaga gaggtaagga c 31

<210> 56
<211> 31
<212> DNA
<213> Homo sapiens

<400> 56
tcctagggaa cagcagtgtc cccaagtccc c 31

<210> 57
<211> 31
<212> DNA
<213> Homo sapiens

<400> 57
tcctagggaa cagcactgtc cccaagtccc c 31

<210> 58
<211> 31
<212> DNA
<213> Homo sapiens

<400> 58
acacctggac cctgccggtg cccactccac t 31

<210> 59
<211> 31
<212> DNA
<213> Homo sapiens

<400> 59
acacctggac cctgctggta cccactccac t 31

<210> 60
<211> 31
<212> DNA
<213> Homo sapiens

<400> 60
ggcctagcac cccccagcc aagcagagca g 31

<210> 61

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Stripped Sequence Listing.txt

<211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 61
 ggccctagcac cccccaagcc aagcagagca g 31

 <210> 62
 <211> 31
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 <213> Homo sapiens

 <400> 62
 aggagggatg ttgaatttct gccgtatggt c 31

 <210> 63
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 <212> DNA
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 <400> 63
 aggagggatg ttgaaattct gccgtatggt c 31

 <210> 64
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 64
 gccgtatggt cagcactggc ccctctcggg t 31

 <210> 65
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 65
 gccgtatggt cagcagtggc ccctctcggg t 31

 <210> 66
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 66
 gcactggccc ctctcgggtg cccaagctgc c 31

 <210> 67
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 67
 gcactggccc ctctcaggtg cccaagctgc c 31

 <210> 68

Stripped Sequence Listing.txt

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<211> 31
<212> DNA
<213> Homo sapiens

<400> 68
gagctttaag aaggacgaca tcctctacgt g 31

<210> 69
<211> 31
<212> DNA
<213> Homo sapiens

<400> 69
gagctttaag aaggatgaca tcctctacgt g 31

<210> 70
<211> 31
<212> DNA
<213> Homo sapiens

<400> 70
ggggtggggt ggggcagggg tcgccgaggg c 31

<210> 71
<211> 30
<212> DNA
<213> Homo sapiens

<400> 71
ggggtggggt ggggcggggg cgccgagggc 30

<210> 72
<211> 31
<212> DNA
<213> Homo sapiens

<400> 72
agggcagcag ggtcttgatg gccctgccca g 31

<210> 73
<211> 31
<212> DNA
<213> Homo sapiens

<400> 73
agggcagcag ggtctcgatg gccctgccca g 31

<210> 74
<211> 31
<212> DNA
<213> Homo sapiens

<400> 74
agatgacaat agcgccacaa agacgctgtc a 31

<210> 75

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Stripped Sequence Listing.txt

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<211> 31
<212> DNA
<213> Homo sapiens

<400> 75
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<210> 76
<211> 31
<212> DNA
<213> Homo sapiens

<400> 76
ggttactgac agctgctgag cagtgttctt c 31

<210> 77
<211> 31
<212> DNA
<213> Homo sapiens

<400> 77
ggttactgac agctgatgag cagtgttctt c 31

<210> 78
<211> 31
<212> DNA
<213> Homo sapiens

<400> 78
cctggatgcc tgggacgaca gacatgacag a 31

<210> 79
<211> 31
<212> DNA
<213> Homo sapiens

<400> 79
cctggatgcc tgggatgaca gacatgacag a 31

<210> 80
<211> 31
<212> DNA
<213> Homo sapiens

<400> 80
ggctgttttc ttagccgtgg agaagcccg c 31

<210> 81
<211> 31
<212> DNA
<213> Homo sapiens

<400> 81
ggctgttttc ttagctgtgg agaagcccg c 31

<210> 82

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Stripped Sequence Listing.txt

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<211> 31
<212> DNA
<213> Homo sapiens

<400> 82
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<210> 83
<211> 31
<212> DNA
<213> Homo sapiens

<400> 83
gccgcctgag gggacaccag actcagctct t 31

<210> 84
<211> 31
<212> DNA
<213> Homo sapiens

<400> 84
aagtagaagt ctgtccgtct atgaacatgc g 31

<210> 85
<211> 31
<212> DNA
<213> Homo sapiens

<400> 85
aagtagaagt ctgtctgtct atgaacatgc g 31

<210> 86
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<213> Homo sapiens

<400> 86
tgtctatgaa catgcagggg aaggatccgg a 31

<210> 87
<211> 31
<212> DNA
<213> Homo sapiens

<400> 87
tgtctatgaa catgcggggg aaggatccgg a 31

<210> 88
<211> 31
<212> DNA
<213> Homo sapiens

<400> 88
ctctcctgga aggacgtcac aactccaggt g 31

<210> 89

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Stripped Sequence Listing.txt

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<211> 31
<212> DNA
<213> Homo sapiens

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<210> 90
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<212> DNA
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<400> 90
tctccagaag cttcactcac actccactgg t 31

<210> 91
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<212> DNA
<213> Homo sapiens

<400> 91
tctccagaag cttcagtcac actccactgg t 31

<210> 92
<211> 31
<212> DNA
<213> Homo sapiens

<400> 92
tctccagaag cttcagtcac actccactgg t 31

<210> 93
<211> 31
<212> DNA
<213> Homo sapiens

<400> 93
agagttagac ttcttgaaca accttttaag g 31

<210> 94
<211> 19
<212> DNA
<213> Homo sapiens

<400> 94
ccatgacgga ggtggaagc 19

<210> 95
<211> 19
<212> DNA
<213> Homo sapiens

<400> 95
agaggagcga gtccaccga 19

<210> 96

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Stripped Sequence Listing.txt

<211> 20	
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<213> Homo sapiens	
<400> 96	
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<211> 16	
<212> DNA	
<213> Homo sapiens	
<400> 97	
ccaggggagg atgcaa	16
<210> 98	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 98	
acaagcacac cactatcagg g	21
<210> 99	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 99	
cctaattccag gacctggttc	20
<210> 100	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 100	
cttgacacagg gacaggacta g	21
<210> 101	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 101	
gctgtatcta cggaagtgt tg	22
<210> 102	
<211> 21	
<212> DNA	
<213> Homo Sapiens	
<400> 102	
gatcacagat gtgagccaac g	21
<210> 103	

Stripped Sequence Listing.txt

<211>	22	
<212>	DNA	
<213>	Homo sapiens	
<400>	103	
	ccttgtcatc agtctcaccc tc	22
<210>	104	
<211>	20	
<212>	DNA	
<213>	Homo sapiens	
<400>	104	
	gagccacgat tccaagaca	20
<210>	105	
<211>	20	
<212>	DNA	
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<400>	105	
	acatctcgcc acctctcttg	20
<210>	106	
<211>	20	
<212>	DNA	
<213>	Homo sapiens	
<400>	106	
	tgctgtagga gaggctgaaa	20
<210>	107	
<211>	20	
<212>	DNA	
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<400>	107	
	tcagcaacct ctccctcttc	20
<210>	108	
<211>	18	
<212>	DNA	
<213>	Homo sapiens	
<400>	108	
	acgccagctt gaggtcac	18
<210>	109	
<211>	20	
<212>	DNA	
<213>	Homo sapiens	
<400>	109	
	tgaccttgct ctctgctcct	20
<210>	110	

Stripped Sequence Listing.txt

<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 110	
cattgccttg cccagaag	18
<210> 111	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 111	
ccgtggctct ctctgttcac	20
<210> 112	
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<400> 112	
tcaccgtctc ctccttcac	20
<210> 113	
<211> 19	
<212> DNA	
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<400> 113	
tttgtgaaat ggttgctgt	19
<210> 114	
<211> 20	
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<400> 114	
gtgctacctg gctctcttcg	20
<210> 115	
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<212> DNA	
<213> Homo sapiens	
<400> 115	
cccctgagtg agagttgtgg	20
<210> 116	
<211> 20	
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<213> Homo sapiens	
<400> 116	
ccactgaggt tgatgtgcag	20
<210> 117	

Stripped Sequence Listing.txt

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<211> 22
<212> DNA
<213> Homo sapiens

<400> 117
caccagggtg gatgtaactg ag 22

<210> 118
<211> 22
<212> DNA
<213> Homo sapiens

<400> 118
gattcttatt tccctcccag ac 22

<210> 119
<211> 20
<212> DNA
<213> Homo sapiens

<400> 119
ctcctgactt tggcaccttg 20

<210> 120
<211> 20
<212> DNA
<213> Homo sapiens

<400> 120
ttcagaccag cgtccagtca 20

<210> 121
<211> 20
<212> DNA
<213> Homo sapiens

<400> 121
tgctttacct ctggggatgg 20

<210> 122
<211> 20
<212> DNA
<213> Homo sapiens

<400> 122
cttccgctca gatgcctctg 20

<210> 123
<211> 22
<212> DNA
<213> Homo sapiens

<400> 123
cagaaggagc gactccatta ag 22

<210> 124

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Stripped Sequence Listing.txt

<211>	20	
<212>	DNA	
<213>	Homo sapiens	
<400>	124	
	gcaaaggcac caggctaaac	20
<210>	125	
<211>	21	
<212>	DNA	
<213>	Homo sapiens	
<400>	125	
	ggtagtagct ggaagcaatg c	21
<210>	126	
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<212>	DNA	
<213>	Homo sapiens	
<400>	126	
	cagagagctt ctcaggcact g	21
<210>	127	
<211>	20	
<212>	DNA	
<213>	Homo sapiens	
<400>	127	
	tggccacact ccactctttc	20
<210>	128	
<211>	20	
<212>	DNA	
<213>	Homo sapiens	
<400>	128	
	ctcagggctg aaaacacatg	20
<210>	129	
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<213>	Homo sapiens	
<400>	129	
	gagccacagc cacattgtga	20
<210>	130	
<211>	20	
<212>	DNA	
<213>	Homo sapiens	
<400>	130	
	ggaagcttct ccaccaatga	20
<210>	131	

Stripped Sequence Listing.txt

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<211> 20
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<213> Homo sapiens

<400> 131
gaacccttgc ctggtctgtg 20

<210> 132
<211> 20
<212> DNA
<213> Homo sapiens

<400> 132
gaaagcaatg gctctgacag 20

<210> 133
<211> 20
<212> DNA
<213> Homo sapiens

<400> 133
gactggtagc ctggtggaga 20

<210> 134
<211> 21
<212> DNA
<213> Homo sapiens

<400> 134
gaagttctca gctaagccca g 21

<210> 135
<211> 20
<212> DNA
<213> Homo sapiens

<400> 135
gcaatgcaga gcctagcatc 20

<210> 136
<211> 20
<212> DNA
<213> Homo sapiens

<400> 136
tgctgggaca ctcaagctac 20

<210> 137
<211> 21
<212> DNA
<213> Homo sapiens

<400> 137
ctgcactgtc agatcatatg c 21

<210> 138

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Stripped Sequence Listing.txt

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<211> 20
<212> DNA
<213> Homo sapiens

<400> 138
acaccaggat gggctcagtg 20

<210> 139
<211> 20
<212> DNA
<213> Homo sapiens

<400> 139
gaacagcagt gctcccaagt 20

<210> 140
<211> 20
<212> DNA
<213> Homo sapiens

<400> 140
ccagaactta cggctggcac 20

<210> 141
<211> 22
<212> DNA
<213> Homo sapiens

<400> 141
gctcagatct agttgccaca gg 22

<210> 142
<211> 21
<212> DNA
<213> Homo sapiens

<400> 142
ccacttgag aatgtgctca g 21

<210> 143
<211> 20
<212> DNA
<213> Homo sapiens

<400> 143
ccaagaagca ggcagaaagc 20

<210> 144
<211> 21
<212> DNA
<213> Homo sapiens

<400> 144
tgtactcctc cgtctttggt g 21

<210> 145

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Stripped Sequence Listing.txt

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<211> 21
<212> DNA
<213> Homo sapiens

<400> 145
gactcagtcc ttcctgcaga g 21

<210> 146
<211> 21
<212> DNA
<213> Homo sapiens

<400> 146
caccaggaaa agagtctcca g 21

<210> 147
<211> 20
<212> DNA
<213> Homo sapiens

<400> 147
ctcggcgatt cctgatcaag 20

<210> 148
<211> 21
<212> DNA
<213> Homo sapiens

<400> 148
gaagcagaat ccctcctcca g 21

<210> 149
<211> 21
<212> DNA
<213> Homo sapiens

<400> 149
gtagccttga gacctgccaa g 21

<210> 150
<211> 20
<212> DNA
<213> Homo sapiens

<400> 150
tgtggctctg aagatggcag 20

<210> 151
<211> 20
<212> DNA
<213> Homo sapiens

<400> 151
gtgctcatgc tggactccag 20

<210> 152

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Stripped Sequence Listing.txt

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<211> 20
<212> DNA
<213> Homo sapiens

<400> 152
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<210> 153
<211> 20
<212> DNA
<213> Homo sapiens

<400> 153
gtcagattca tgcattggcag                20

<210> 154
<211> 21
<212> DNA
<213> Homo sapiens

<400> 154
caggcacagg tgaactcaga c                21

<210> 155
<211> 21
<212> DNA
<213> Homo sapiens

<400> 155
ctgtgtggct ttactgcctt g                21

<210> 156
<211> 21
<212> DNA
<213> Homo sapiens

<400> 156
ccataggccc atctctcatt c                21

<210> 157
<211> 21
<212> DNA
<213> Homo sapiens

<400> 157
gctgttgctg tgctttatgt g                21

<210> 158
<211> 20
<212> DNA
<213> Homo sapiens

<400> 158
agaatcctga cgttggccag                20

<210> 159

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Stripped Sequence Listing.txt

<211> 21	
<212> DNA	
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<400> 159	
ctggtgaagg agagtcaggt g	21
<210> 160	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 160	
gtgcttctgg gtcctgggtc	20
<210> 161	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 161	
ccagtgactc cattccactc ttt	23
<210> 162	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 162	
cgggtgcagtc caccttctg	19
<210> 163	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 163	
ggagaagcgg ccatttcg	18
<210> 164	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 164	
ctcaatagcg tgcggagcaa	20
<210> 165	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 165	
cagtgtgggt gtcttcgttt gg	22
<210> 166	

Stripped Sequence Listing.txt

<211>	25	
<212>	DNA	
<213>	Homo sapiens	
<400>	166	
	attaacagga cgcatagctt aagga	25
<210>	167	
<211>	31	
<212>	DNA	
<213>	Homo sapiens	
<400>	167	
	aaaggagatc acagaaaaga accgacactg c	31
<210>	168	
<211>	35	
<212>	DNA	
<213>	Homo sapiens	
<400>	168	
	tgaggctaga tatgtctggc tgaagatttg atgtg	35
<210>	169	
<211>	24	
<212>	DNA	
<213>	Homo sapiens	
<400>	169	
	ccatttctatc atcaacgggt acaa	24
<210>	170	
<211>	22	
<212>	DNA	
<213>	Homo sapiens	
<400>	170	
	agcaagtggg aaggtgtaat cc	22
<210>	171	
<211>	17	
<212>	DNA	
<213>	Homo sapiens	
<400>	171	
	agcctcgctt ttgccga	17
<210>	172	
<211>	15	
<212>	DNA	
<213>	Homo sapiens	
<400>	172	
	ctggtgcctg gggcg	15
<210>	173	

Stripped Sequence Listing.txt

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<211> 22
<212> DNA
<213> Homo sapiens

<400> 173
ccgccgccccg tccacacccg cc 22

<210> 174
<211> 21
<212> DNA
<213> Homo sapiens

<400> 174
gaaggatgac gtggacatgc t 21

<210> 175
<211> 19
<212> DNA
<213> Homo sapiens

<400> 175
gatggtgggc atgggtcag 19

<210> 176
<211> 22
<212> DNA
<213> Homo sapiens

<400> 176
cttaatgtca cgcacgattt cc 22

<210> 177
<211> 22
<212> DNA
<213> Homo sapiens

<400> 177
aaactgtatg acacggccat gg 22

<210> 178
<211> 24
<212> DNA
<213> Homo sapiens

<400> 178
ctcctccctg tatttctccg actc 24

<210> 179
<211> 22
<212> DNA
<213> Homo sapiens

<400> 179
accatgccat tgacatcatc tg 22

<210> 180

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Stripped Sequence Listing.txt

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<211> 22
<212> DNA
<213> Homo sapiens

<400> 180
aagacaacca ggtcagcgtc ag 22

<210> 181
<211> 31
<212> DNA
<213> Homo sapiens

<400> 181
ggccttagcac cccccaagcc aagcagagca g 31

<210> 182
<211> 31
<212> DNA
<213> Homo sapiens

<400> 182
ggccttagcac cccccagcc aagcagagca g 31

<210> 183
<211> 22
<212> DNA
<213> Homo sapiens

<400> 183
cagaaaagaa ccggcactgt ct 22

<210> 184
<211> 19
<212> DNA
<213> Homo sapiens

<400> 184
tgtggtgcag cctctcgat 19

<210> 185
<211> 20
<212> DNA
<213> Homo sapiens

<400> 185
ctggacatcg ccccgcatgc 20

<210> 186
<211> 24
<212> DNA
<213> Homo sapiens

<400> 186
gaggaatcag atgaggatat gggga 24

<210> 187

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Stripped Sequence Listing.txt

<211> 20
<212> DNA
<213> Homo sapiens

<400> 187
aagcaggctg acttggttgc 20

<210> 188
<211> 26
<212> DNA
<213> Homo sapiens

<400> 188
tcggtctctt cgactaatcc cgccaa 26

<210> 189
<211> 7268
<212> DNA
<213> Homo sapiens - Base pairs nucleotide sequence

<400> 189
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cacttccagg acctgcgggc ggcgctggag aagacgcagc ctcacctgct gccattctc 120
tacctgaacg gcgtcgtcgg gccgccgag cccgccgaag gcgcgggttc tacctacagc 180
gtcctgtcca ccatgccctc agactcagaa agcagcagct ccctcagcag tgtgggcact 240
accgggaagg cgccgtcccc accacccctc ctactgacc agcaagtga tgagaagggtg 300
gagaacctct ccattcagct gcggctgatg acccgggaga gaaacgagct ccgcaagcgc 360
ctggcctttg ctacgcatgg cacggccttt gacaagaggc cctaccacag gctgaatcct 420
gactatgaga ggctgaagat ccagtgcgtg cgagccatgt cggacctgca ggcctgcag 480
aaccagcaca ccaacgcctt gaagagggtg gaggagggtg ccaaggagac tgacttctac 540
cacacactcc acagccggct cctgagtgc cagactcggc tgaaggatga cgtggacatg 600
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gacatgaagc ggctccacga ggaggaccag aaggagatcg gtgacctccg tgcccagcag 720
cagcagggtg tgaagcaca cgggtcatcc gagattctca acaaactgta tgacacggcc 780
atggacaagt tggagggtgt caagaaggac tatgacgccc ttcggaagag gtacagtgcag 840
aaagtcgcca tccacaatgc agacctgagc cgcctggagc agctggggga ggagaaccag 900
cggttgctga agcagacaga gatgctgacc cagcagaggg acacggccat ccagctgcag 960
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acggcgagcaga acaaggacct gcagtgggag atggagctgc tgcagtcaga gctgaccgag 1080
ctgagaacca cgcagggtgaa gacagcaaag gagtcggaga aatacagggg ggagcgggac 1140
gctgtgtaca gcgagtacaa gctcatcatg agtgagcgtg accagggtcat ctctgagctg 1200

Stripped Sequence Listing.txt

gacaagctgc agaccgaagt ggagctggcc gagtccaagc tcaagagcag cacatctgag	1260
aagaaggcgg ccaatgagga gatggaggcg ctgcggcaga tcaaagacac ggtgacaatg	1320
gatgctggga gagccaacaa ggaggttgaa atccttcgaa agcagtgcaa ggctctgtgc	1380
caggagctga aggaagccct ccaggaggcg gatgtggcca agtgccggcg ggactgggcc	1440
ttccaggagc gagacaagat tgtagcagag cgtgacagca tccggacact gtgtgacaac	1500
ctgaggcggg agcgggaccg tgcggtgagc gagctggctg aggccctgcg cagcctggat	1560
gacaccgcga agcagaagaa tgatgtcagc cgcgagctga aggagctcaa ggaacagatg	1620
gaatcccagt tggaaaagga ggcccgggtc cgacagctga tggcccacag ctcccacgac	1680
tcggccattg acacggattc catggagtgg gaaacggaag ttgtagagtt cgagaggag	1740
acggaggata ttgacttgaa ggcactgggg tttgatatgg cagaaggtgt gaatgagcct	1800
tgtttcccg gggactgtgg catatttgtc actaaagtgg acaaaggaag cattgctgat	1860
ggccgcttaa gggatcaatga ctggctgctg agaatcaacg atgtggacct catcaacaag	1920
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cagaaagaca gtggcatcag tctggagaat ggagtgtatg ctgccgctgt gctgcctgga	2100
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attgcactgg acaacaagtc tctgaatgaa tgtgaatctc tgctgcggag ctgccaggac	2220
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atttttgaaa atatcaaaga ctctgataag atgctgagtt ttcgagcca tggcccggag	2340
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gcggggcctc tgacaccccc aaaacctccc agaaggagcg actccattaa gttccagcac	2940
aggctggaga ctagctccga gtcagaagcc actctggtgg gcagctcccc atccactagt	3000
ccccgagcg ccctgcccc tgacgtggac cccggggagc ccatgcacgc atcacccct	3060
cgcaaggcca gggctccgat tgcttccagc tactaccctg aaggagatgg ggactcctcc	3120

Stripped Sequence Listing.txt

cacctgccgg	ccaagaaatc	ctgtgatgag	gacctcacct	cccagaaggt	ggatgagctg	3180
gggcagaagc	gtcgccggcc	aaaatctgct	cccagttttc	ggccgaagct	tgctccagta	3240
gtgattcctg	ctcagttcct	ggaggaacag	aagtgtgtcc	cggccagtgg	agaactctcc	3300
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cagcgcgggc	agattcccag	caaatatgtg	atggaccaag	aattctccag	gaggctcagc	4860
atgtctgaag	tcaaagatga	caatagcgcc	acaaagacgc	tgtagcggc	tgacgcccgg	4920
tccttttttc	ggaggaaaca	caagcacaaa	cgcagcgggt	ccaaggacgg	gaaagacctg	4980

Stripped Sequence Listing.txt

ctcgccttgg atgccttttc cagtgaactcc attccactct ttgaagattc ggtgagcctg	5040
gcctatcagc ggggccagaa ggtggactgc accgctctga ggcctgtcct gattctgggg	5100
cctttgctgg acgtggtgaa ggagatgctg gtgaatgagg ctcttgga gttctgcaga	5160
tgtccccctt aggtgatgaa ggcctcccag caggccattg agcgggggtg caaagattgc	5220
ctgtttgtcg actataagcg gagaagcggc catttcgatg tgaccactgt ggcgtcaata	5280
aaggagatca cagaaaagaa ccgacactgc ctcttgga ttgctccgca cgctattgag	5340
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aaagagcagt ttgaggcggc gcagaagctt gagcaggagt acagcaggta cttcacaggg	5520
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gaacaaaata aagtcctgtg gattccagcc tgcccgtctt aggagaatgc tgtgctgtgg	5640
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cctcctttgt agacagaggg ccacggctgc gtgcgatcca ggcccaggcc cacacactct	5820
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tgcccagccc ctgtcccctc tgtcaacccc ctgtcgcttt ggtgttggtt tcgttcccgt	6060
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gatgcctgcc attgggtcct ccttaggctc tgtaagtcgt gacagccttc atcagtgcaa	6480
tgtttgcagg gtaattctta aacttttttag aggggtggcag gtacatcagt tctttttgat	6540
atgaaaacat tcatgtttca gacattgaat tgagagcttt taggggaagc ataatggtta	6600
ttgtcactat caacagtcta aaaagaaaaa ctgaggctctt tttaatcttg attacagcac	6660
tcacggcatg caccctactc agtggtgggtg tcttcgtttg ggggcttttt tttttttgc	6720
acttctgagg ctagatatgt ctggctgaag atttgatgtg gttcctcctt aagctatgcg	6780
tcctgttaat aatagggtact gtactgggct ctgtgtaagt gtcgttgggg taggacctat	6840
attttaatac tgttcctaac atttcatttt actagcgaga aatctttgat ttcattttat	6900

Stripped Sequence Listing.txt

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tctttgtaat tctagacact agattgtagt ttagccataa ctgatgtttt ttaaaaaggg 6960
atatattttc ttgcacagtt gttcaaaaaa gagacaagtt tcagtcctca atgctgtcct 7020
ttgtttttaca ggtacaagtt ttctagctca gacaaactat gaaaaactgt agactattct 7080
caaggtatta actcgcagac cctctggggg taggggctgt tttctaagtt acaggcagag 7140
tgggactgag atgggtacagt gtgcacagac aggtactgag ctgacagact gggattttct 7200
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<212> PRT
<213> Homo Sapiens - peptide sequence of amino acids
<400> 190
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```
Met Pro Ser Asp Ser Glu Ser Ser Ser Ser Leu Ser Ser Val Gly Thr
1 5 10 15
```

```
Thr Gly Lys Ala Pro Ser Pro Pro Pro Leu Leu Thr Asp Gln Gln Val
20 25 30
```

```
Asn Glu Lys Val Glu Asn Leu Ser Ile Gln Leu Arg Leu Met Thr Arg
35 40 45
```

```
Glu Arg Asn Glu Leu Arg Lys Arg Leu Ala Phe Ala Thr His Gly Thr
50 55 60
```

```
Ala Phe Asp Lys Arg Pro Tyr His Arg Leu Asn Pro Asp Tyr Glu Arg
65 70 75 80
```

```
Leu Lys Ile Gln Cys Val Arg Ala Met Ser Asp Leu Gln Ser Leu Gln
85 90 95
```

```
Asn Gln His Thr Asn Ala Leu Lys Arg Cys Glu Glu Val Ala Lys Glu
100 105 110
```

```
Thr Asp Phe Tyr His Thr Leu His Ser Arg Leu Leu Ser Asp Gln Thr
115 120 125
```

```
Arg Leu Lys Asp Asp Val Asp Met Leu Arg Arg Glu Asn Gly Gln Leu
130 135 140
```

```
Leu Arg Glu Arg Asn Leu Leu Gln Gln Ser Trp Glu Asp Met Lys Arg
145 150 155 160
```

Stripped Sequence Listing.txt

Leu His Glu Glu Asp Gln Lys Glu Ile Gly Asp Leu Arg Ala Gln Gln
165 170 175

Gln Gln Val Leu Lys His Asn Gly Ser Ser Glu Ile Leu Asn Lys Leu
180 185 190

Tyr Asp Thr Ala Met Asp Lys Leu Glu Val Val Lys Lys Asp Tyr Asp
195 200 205

Ala Leu Arg Lys Arg Tyr Ser Glu Lys Val Ala Ile His Asn Ala Asp
210 215 220

Leu Ser Arg Leu Glu Gln Leu Gly Glu Glu Asn Gln Arg Leu Leu Lys
225 230 235 240

Gln Thr Glu Met Leu Thr Gln Gln Arg Asp Thr Ala Ile Gln Leu Gln
245 250 255

His Gln Cys Ala Leu Ser Leu Arg Arg Phe Glu Ala Ile His His Glu
260 265 270

Leu Asn Lys Ala Thr Ala Gln Asn Lys Asp Leu Gln Trp Glu Met Glu
275 280 285

Leu Leu Gln Ser Glu Leu Thr Glu Leu Arg Thr Thr Gln Val Lys Thr
290 295 300

Ala Lys Glu Ser Glu Lys Tyr Arg Glu Glu Arg Asp Ala Val Tyr Ser
305 310 315 320

Glu Tyr Lys Leu Ile Met Ser Glu Arg Asp Gln Val Ile Ser Glu Leu
325 330 335

Asp Lys Leu Gln Thr Glu Val Glu Leu Ala Glu Ser Lys Leu Lys Ser
340 345 350

Ser Thr Ser Glu Lys Lys Ala Ala Asn Glu Glu Met Glu Ala Leu Arg
355 360 365

Gln Ile Lys Asp Thr Val Thr Met Asp Ala Gly Arg Ala Asn Lys Glu
370 375 380

Val Glu Ile Leu Arg Lys Gln Cys Lys Ala Leu Cys Gln Glu Leu Lys
385 390 395 400

Glu Ala Leu Gln Glu Ala Asp Val Ala Lys Cys Arg Arg Asp Trp Ala
405 410 415

Stripped Sequence Listing.txt

Phe Gln Glu Arg Asp Lys Ile Val Ala Glu Arg Asp Ser Ile Arg Thr
420 425 430

Leu Cys Asp Asn Leu Arg Arg Glu Arg Asp Arg Ala Val Ser Glu Leu
435 440 445

Ala Glu Ala Leu Arg Ser Leu Asp Asp Thr Arg Lys Gln Lys Asn Asp
450 455 460

Val Ser Arg Glu Leu Lys Glu Leu Lys Glu Gln Met Glu Ser Gln Leu
465 470 475 480

Glu Lys Glu Ala Arg Phe Arg Gln Leu Met Ala His Ser Ser His Asp
485 490 495

Ser Ala Ile Asp Thr Asp Ser Met Glu Trp Glu Thr Glu Val Val Glu
500 505 510

Phe Glu Arg Glu Thr Glu Asp Ile Asp Leu Lys Ala Leu Gly Phe Asp
515 520 525

Met Ala Glu Gly Val Asn Glu Pro Cys Phe Pro Gly Asp Cys Gly Ile
530 535 540

Phe Val Thr Lys Val Asp Lys Gly Ser Ile Ala Asp Gly Arg Leu Arg
545 550 555 560

Val Asn Asp Trp Leu Leu Arg Ile Asn Asp Val Asp Leu Ile Asn Lys
565 570 575

Asp Lys Lys Gln Ala Ile Lys Ala Leu Leu Asn Gly Glu Gly Ala Ile
580 585 590

Asn Met Val Val Arg Arg Arg Lys Ser Leu Gly Gly Lys Val Val Thr
595 600 605

Pro Leu His Ile Asn Leu Ser Gly Gln Lys Asp Ser Gly Ile Ser Leu
610 615 620

Glu Asn Gly Val Tyr Ala Ala Ala Val Leu Pro Gly Ser Pro Ala Ala
625 630 635 640

Lys Glu Gly Ser Leu Ala Val Gly Asp Arg Ile Val Ala Ile Asn Gly
645 650 655

Ile Ala Leu Asp Asn Lys Ser Leu Asn Glu Cys Glu Ser Leu Leu Arg
660 665 670

Stripped Sequence Listing.txt

Ser Cys Gln Asp Ser Leu Thr Leu Ser Leu Leu Lys Val Phe Pro Gln
675 680 685

Ser Ser Ser Trp Ser Gly Gln Asn Ile Phe Glu Asn Ile Lys Asp Ser
690 695 700

Asp Lys Met Leu Ser Phe Arg Ala His Gly Pro Glu Val Gln Ala His
705 710 715 720

Asn Lys Arg Asn Leu Ile Gln His Asn Asn Ser Thr Gln Thr Asp Ile
725 730 735

Phe Tyr Thr Asp Arg Leu Glu Asp Arg Lys Glu Pro Gly Pro Pro Gly
740 745 750

Gly Ser Ser Ser Phe Leu His Lys Pro Phe Pro Gly Gly Pro Leu Gln
755 760 765

Val Cys Pro Gln Ala Cys Pro Ser Ala Ser Glu Arg Ser Leu Ser Ser
770 775 780

Phe Arg Ser Asp Ala Ser Gly Asp Arg Gly Phe Gly Leu Val Asp Val
785 790 795 800

Arg Gly Arg Arg Pro Leu Leu Pro Phe Glu Thr Glu Val Gly Pro Cys
805 810 815

Gly Val Gly Glu Ala Ser Leu Asp Lys Ala Asp Ser Glu Gly Ser Asn
820 825 830

Ser Gly Gly Thr Trp Pro Lys Ala Met Leu Ser Ser Thr Ala Val Pro
835 840 845

Glu Lys Leu Ser Val Tyr Lys Lys Pro Lys Gln Arg Lys Ser Ile Phe
850 855 860

Asp Pro Asn Thr Phe Lys Arg Pro Gln Thr Pro Pro Lys Ile Asp Tyr
865 870 875 880

Leu Leu Pro Gly Pro Gly Pro Ala His Ser Pro Gln Pro Ser Lys Arg
885 890 895

Ala Gly Pro Leu Thr Pro Pro Lys Pro Pro Arg Arg Ser Asp Ser Ile
900 905 910

Lys Phe Gln His Arg Leu Glu Thr Ser Ser Glu Ser Glu Ala Thr Leu
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Stripped Sequence Listing.txt
920 925

915

Val Gly Ser Ser Pro Ser Thr Ser Pro Pro Ser Ala Leu Pro Pro Asp
930 935 940

Val Asp Pro Gly Glu Pro Met His Ala Ser Pro Pro Arg Lys Ala Arg
945 950 955 960

Val Arg Ile Ala Ser Ser Tyr Tyr Pro Glu Gly Asp Gly Asp Ser Ser
965 970 975

His Leu Pro Ala Lys Lys Ser Cys Asp Glu Asp Leu Thr Ser Gln Lys
980 985 990

Val Asp Glu Leu Gly Gln Lys Arg Arg Arg Pro Lys Ser Ala Pro Ser
995 1000 1005

Phe Arg Pro Lys Leu Ala Pro Val Val Ile Pro Ala Gln Phe Leu
1010 1015 1020

Glu Glu Gln Lys Cys Val Pro Ala Ser Gly Glu Leu Ser Pro Glu
1025 1030 1035

Leu Gln Glu Trp Ala Pro Tyr Ser Pro Gly His Ser Ser Arg His
1040 1045 1050

Ser Asn Pro Pro Leu Tyr Pro Ser Arg Pro Ser Val Gly Thr Val
1055 1060 1065

Pro Arg Ser Leu Thr Pro Ser Thr Thr Val Ser Ser Ile Leu Arg
1070 1075 1080

Asn Pro Ile Tyr Thr Val Arg Ser His Arg Val Gly Pro Cys Ser
1085 1090 1095

Ser Pro Pro Ala Ala Arg Asp Ala Gly Pro Gln Gly Leu His Pro
1100 1105 1110

Ser Val Gln His Gln Gly Arg Leu Ser Leu Asp Leu Ser His Arg
1115 1120 1125

Thr Cys Ser Asp Tyr Ser Glu Met Arg Ala Thr His Gly Ser Asn
1130 1135 1140

Ser Leu Pro Ser Ser Ala Arg Leu Gly Ser Ser Ser Asn Leu Gln
1145 1150 1155

Stripped Sequence Listing.txt

Phe Lys Ala Glu Arg Ile Lys Ile Pro Ser Thr Pro Arg Tyr Pro
 1160 1165 1170
 Arg Ser Val Val Gly Ser Glu Arg Gly Ser Val Ser His Ser Glu
 1175 1180 1185
 Cys Ser Thr Pro Pro Gln Ser Pro Leu Asn Ile Asp Thr Leu Ser
 1190 1195 1200
 Ser Cys Ser Gln Ser Gln Thr Ser Ala Ser Thr Leu Pro Arg Ile
 1205 1210 1215
 Ala Val Asn Pro Ala Ser Leu Gly Glu Arg Arg Lys Asp Arg Pro
 1220 1225 1230
 Tyr Val Glu Glu Pro Arg His Val Lys Val Gln Lys Gly Ser Glu
 1235 1240 1245
 Pro Leu Gly Ile Ser Ile Val Ser Gly Glu Lys Gly Gly Ile Tyr
 1250 1255 1260
 Val Ser Lys Val Thr Val Gly Ser Ile Ala His Gln Ala Gly Leu
 1265 1270 1275
 Glu Tyr Gly Asp Gln Leu Leu Glu Phe Asn Gly Ile Asn Leu Arg
 1280 1285 1290
 Ser Ala Thr Glu Gln Gln Ala Arg Leu Ile Ile Gly Gln Gln Cys
 1295 1300 1305
 Asp Thr Ile Thr Ile Leu Ala Gln Tyr Asn Pro His Val His Gln
 1310 1315 1320
 Leu Ser Ser His Ser Arg Ser Ser Ser His Leu Asp Pro Ala Gly
 1325 1330 1335
 Thr His Ser Thr Leu Gln Gly Ser Gly Thr Thr Thr Pro Glu His
 1340 1345 1350
 Pro Ser Val Ile Asp Pro Leu Met Glu Gln Asp Glu Gly Pro Ser
 1355 1360 1365
 Thr Pro Pro Ala Lys Gln Ser Ser Ser Arg Ile Ala Gly Asp Ala
 1370 1375 1380
 Asn Lys Lys Thr Leu Glu Pro Arg Val Val Phe Ile Lys Lys Ser
 1385 1390 1395

Stripped Sequence Listing.txt

Gln Leu Glu Leu Gly Val His Leu Cys Gly Gly Asn Leu His Gly
1400 1405 1410

Val Phe Val Ala Glu Val Glu Asp Asp Ser Pro Ala Lys Gly Pro
1415 1420 1425

Asp Gly Leu Val Pro Gly Asp Leu Ile Leu Glu Tyr Gly Ser Leu
1430 1435 1440

Asp Val Arg Asn Lys Thr Val Glu Glu Val Tyr Val Glu Met Leu
1445 1450 1455

Lys Pro Arg Asp Gly Val Arg Leu Lys Val Gln Tyr Arg Pro Glu
1460 1465 1470

Glu Phe Thr Lys Ala Lys Gly Leu Pro Gly Asp Ser Phe Tyr Ile
1475 1480 1485

Arg Ala Leu Tyr Asp Arg Leu Ala Asp Val Glu Gln Glu Leu Ser
1490 1495 1500

Phe Lys Lys Asp Asp Ile Leu Tyr Val Asp Asp Thr Leu Pro Gln
1505 1510 1515

Gly Thr Phe Gly Ser Trp Met Ala Trp Gln Leu Asp Glu Asn Ala
1520 1525 1530

Gln Lys Ile Gln Arg Gly Gln Ile Pro Ser Lys Tyr Val Met Asp
1535 1540 1545

Gln Glu Phe Ser Arg Arg Leu Ser Met Ser Glu Val Lys Asp Asp
1550 1555 1560

Asn Ser Ala Thr Lys Thr Leu Ser Ala Ala Ala Arg Arg Ser Phe
1565 1570 1575

Phe Arg Arg Lys His Lys His Lys Arg Ser Gly Ser Lys Asp Gly
1580 1585 1590

Lys Asp Leu Leu Ala Leu Asp Ala Phe Ser Ser Asp Ser Ile Pro
1595 1600 1605

Leu Phe Glu Asp Ser Val Ser Leu Ala Tyr Gln Arg Val Gln Lys
1610 1615 1620

Val Asp Cys Thr Ala Leu Arg Pro Val Leu Ile Leu Gly Pro Leu
1625 1630 1635

Stripped Sequence Listing.txt

Leu Asp Val Val Lys Glu Met Leu Val Asn Glu Ala Pro Gly Lys
1640 1645 1650

Phe Cys Arg Cys Pro Leu Glu Val Met Lys Ala Ser Gln Gln Ala
1655 1660 1665

Ile Glu Arg Gly Val Lys Asp Cys Leu Phe Val Asp Tyr Lys Arg
1670 1675 1680

Arg Ser Gly His Phe Asp Val Thr Thr Val Ala Ser Ile Lys Glu
1685 1690 1695

Ile Thr Glu Lys Asn Arg His Cys Leu Leu Asp Ile Ala Pro His
1700 1705 1710

Ala Ile Glu Arg Leu His His Met His Ile Tyr Pro Ile Val Ile
1715 1720 1725

Phe Ile His Tyr Lys Ser Ala Lys His Ile Lys Glu Gln Arg Asp
1730 1735 1740

Pro Ile Tyr Leu Arg Asp Lys Val Thr Gln Arg His Ser Lys Glu
1745 1750 1755

Gln Phe Glu Ala Ala Gln Lys Leu Glu Gln Glu Tyr Ser Arg Tyr
1760 1765 1770

Phe Thr Gly Val Ile Gln Gly Gly Ala Leu Ser Ser Ile Cys Thr
1775 1780 1785

Gln Ile Leu Ala Met Val Asn Gln Glu Gln Asn Lys Val Leu Trp
1790 1795 1800

Ile Pro Ala Cys Pro Leu
1805

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<213> Homo sapiens

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